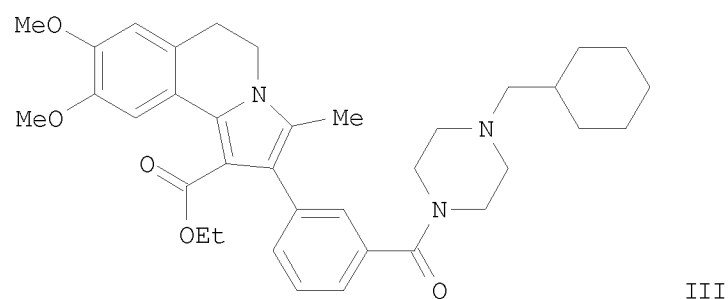
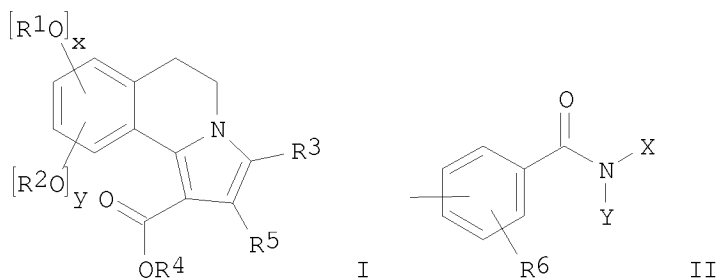


=> d 15 1-16, abs bib fhitr

L5 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
GI



AB The title compds. [I; x, y = 0-1; R1, R2 = H, alkyl, CF3; or R1 and R2 together = alkylene; R3, R4 = alkyl, haloalkyl, perhaloalkyl; R5 = II; R6 = alkyl, CF3, OCF3, etc.; X, Y = H, alkoxy, cycloalkyl, etc.] which are inhibitors of phosphodiesterase 10a and can be used for com-batting cancer, were prepared and formulated. Thus, amidation of 3-[1-(ethoxycarbonyl)-8,9-dimethoxy-3-methyl-5,6-dihydropyrrolo[2,1-a]isoquinolin-2-yl]benzoic acid (preparation given) with 1-cyclohexylmethylpiperazine in the presence of 1-hydroxybenzotriazole, 4-methylmorpholine and 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide.HCl in CH2Cl2 afforded 60% III.HCl which showed IC50 of 410 nM against full-length recombinant PDE 10a.

AN 2003:491223 CAPLUS

DN 139:69161

TI Preparation of 2-substituted pyrrolo[2,1-a]isoquinolines as anticancer agents

IN Niewoehner, Ulrich; Zhang, Chengzhi; Fan, Dongping; Wang, Yamin; Li, Tindy; Boyer, Stephen J.; Burke, Jennifer; Raudenbush, Brian C.; Wong, Wai C.; Ying, Shihong; Wang, Ming; Zhao, Qian; Carter, Christopher A.; Burkhardt, Nils; Pernerstorfer, Josef; Niewoehner, Maria

PA Bayer Corporation, USA; Bayer Aktiengesellschaft

SO PCT Int. Appl., 157 pp.

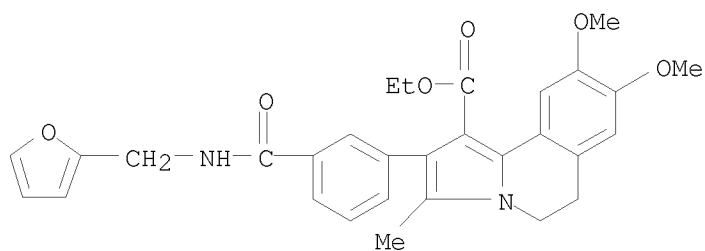
CODEN: PIXXD2

DT Patent

LA English

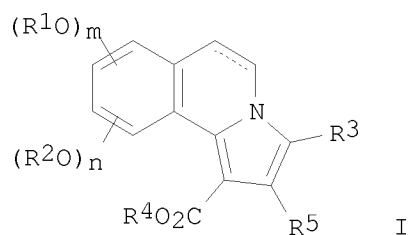
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003051877	A1	20030626	WO 2002-US40328	20021218 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002366362	A1	20030630	AU 2002-366362	20021218 <--
PRAI	US 2001-341367P	P	20011218		
	US 2001-342310P	P	20011219		
	WO 2002-US40328	W	20021218		
OS	MARPAT 139:69161				
IT	550359-46-1P				
	RL: CPN (Combinatorial preparation); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); CMBI (Combinatorial study); PREP (Preparation); USES (Uses)				
	(preparation of 2-substituted pyrrolo[2,1-a]isoquinolines as anticancer agents)				
RN	550359-46-1	CAPLUS			
CN	Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 2-[3-[[(2-furanylmethyl)amino]carbonyl]phenyl]-5,6-dihydro-8,9-dimethoxy-3-methyl-, ethyl ester (CA INDEX NAME)				



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
GI



AB Title compds. [I; m, n = 0, 1; m+n = 1, 2; R1, R2 = H, alkyl, CF3; R1R2 = alkylene; R3 = H, CHO, alkylcarbonyl, alkoxy carbonyl, NO2, amino, alkylamino, (substituted) aralkyl, etc.; R4 = alkyl; R5 = (substituted) aryl, alkyl, cycloalkyl, heteroaryl; with a proviso], were prepared Thus, Et 2-(3-chlorophenyl)-8,9-dimethoxy-3-chloromethyl-5,6-dihydropyrrolo[2,1-a]isoquinoline-1-carboxylate in CH2Cl2 was treated dropwise with morpholine in CH2Cl2 followed by stirring overnight to give 49.2% Et 2-(3-chlorophenyl)-8,9-dimethoxy-3-morpholinoethyl-5,6-dihydropyrrolo[2,1-a]isoquinoline-1-carboxylate. I inhibited PDE 10a with IC50 = 56-210 nM.

AN 2003:133270 CAPLUS

DN 138:187652

TI Preparation of pyrrolo[2,1-a]isoquinoline-1-carboxylates as phosphodiesterase 10a inhibitors for treatment of cancer.

IN Niewoehner, Ulrich; Bauser, Marcus; Ergueden, Jens-Kerim; Flubacher, Dietmar; Naab, Paul; Repp, Thorsten-Oliver; Stoltefuss, Juergen; Burkhardt, Nils; Sewing, Andrea; Schauer, Michael; Schlemmer, Karl-Heinz; Weber, Olaf; Boyer, Stephen J.; Miglarese, Mark; Ying, Shihong

PA Bayer Corporation, USA; Bayer Aktiengesellschaft; Niewoehner, Maria

SO PCT Int. Appl., 89 pp.

CODEN: PIXXD2

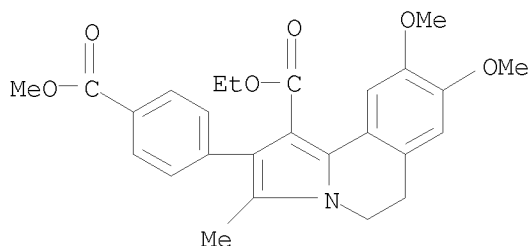
DT Patent

LA English

FAN.CNT 2

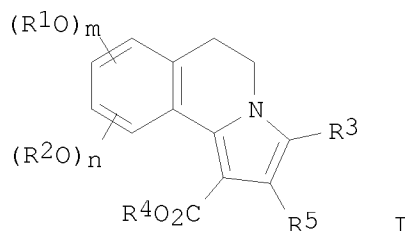
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003014117	A1	20030220	WO 2002-US24877	20020805 <--
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2002326524	A1	20030224	AU 2002-326524	20020805 <--
PRAI	US 2001-310384P	P	20010806		
	WO 2002-US24877	W	20020805		
OS	MARPAT 138:187652				
IT	1055066-42-6				
	RL: PRPH (Prophetic)				
	(Preparation of pyrrolo[2,1-a]isoquinoline-1-carboxylates as phosphodiesterase 10a inhibitors for treatment of cancer.)				

RN 1055066-42-6 CAPLUS
 CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid,
 5,6-dihydro-8,9-dimethoxy-2-[4-(methoxycarbonyl)phenyl]-3-methyl-, ethyl
 ester (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
 GI



AB Title compds. [I; m, n = 0, 1; R1, R2 = H, alkyl, CF3; R3, R4 = alkyl; R5 = (substituted) cycloalkyl, heteroaryl, cycloalkaphenyl], were prepared. Thus, Et (6,7-dimethoxy-3,4-dihydro-1(2H)-isoquinolinyldene)ethanoate (preparation given), indole-4-carboxaldehyde, EtNO2, and piperidine were stirred overnight in EtOH/Me2CHOH at 80° to give 63% Et 2-(1H-indol-4-yl)-8,9-dimethoxy-3-methyl-5,6-dihydropyrrolo[2,1-a]isoquinoline-1-carboxylate. I inhibited PDE 10a with IC50 = <30 to 1500 nM.

AN 2003:133269 CAPLUS

DN 138:187651

TI Preparation of pyrrolo[2,1-a]isoquinoline-1-carboxylates as phosphodiesterase 10a inhibitors.

IN Niewohner, Ulrich; Bauser, Marcus; Ergueden, Jens-Kerim; Flubacher, Dietmar; Naab, Paul; Repp, Thorsten-Oliver; Stoltefuss, Jurgen; Burkhardt, Nils; Sewing, Andrea; Schauer, Michael; Schlemmer, Karl-Heinz; Weber, Olaf; Boyer, Stephen J.; Miglarese, Mark; Fan, Jianmei; Phillips, Barton; Raudenbush, Brian C.; Wang, Yamin

PA Bayer Corporation, USA; Bayer Aktiengesellschaft; Niewohner, Maria

SO PCT Int. Appl., 92 pp.

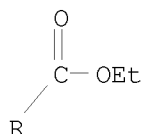
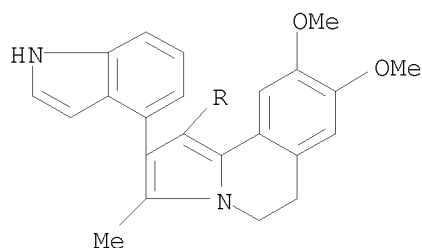
CODEN: PIXXD2

DT Patent

LA English

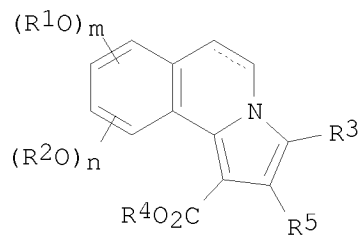
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003014116	A1	20030220	WO 2002-US24874	20020805 <--
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002330997	A1	20030224	AU 2002-330997	20020805 <--
	US 20030236276	A1	20031225	US 2002-213290	20020805 <--
PRAI	US 2001-310358P	P	20010806		
	WO 2002-US24874	W	20020805		
OS	MARPAT 138:187651				
IT	497961-53-2P				
	RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)				
	(claimed compound; preparation of pyrroloisoquinolinecarboxylates as phosphodiesterase 10a inhibitors)				
RN	497961-53-2	CAPLUS			
CN	Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 5,6-dihydro-2-(1H-indol-4-yl)-8,9-dimethoxy-3-methyl-, ethyl ester (CA INDEX NAME)				



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
GI



I

AB Title compds. [I; m, n = 0, 1; m+n = 1, 2; R1, R2 = H alkyl, CF3; R1R2 = alkylene; R3 = H CHO, alkylcarbonyl, alkoxy carbonyl, NO2, amino, alkylamino, hydroxyalkyl, alkoxyalkyl, (substituted) aralkyl, etc.; R4 = alkyl; R5 = (substituted) aryl, alkyl, cycloalkyl, heteroaryl; dotted line = optional double bond; with provisos], were prepared Thus, Et 2-(3-chlorophenyl)-8,9-methoxy-3-chloromethyl-5,6-dihydropyrrolo[2,1-a]isoquinoline-1-carboxylate was stirred overnight with morpholine in CH2Cl2 to give 49.2% Et 2-(3-chlorophenyl)-8,9-methoxy-3-morpholinomethyl-5,6-dihydropyrrolo[2,1-a]isoquinoline-1-carboxylate. Tested I inhibited PDE 10a with IC50 = 54-81 nM.

AN 2003:133268 CAPLUS

DN 138:187650

TI Preparation of pyrrolo[2,1-a]isoquinolinecarboxylates as phosphodiesterase 10a inhibitors for treating cancer.

IN Niewoehner, Ulrich; Bauser, Marcus; Ergueden, Jens-Kerim; Flubacher, Dietmar; Naab, Paul; Repp, Thorsten-Oliver; Stoltefuss, Juergen; Burkhardt, Nils; Sewing, Andrea; Schauer, Michael; Weber, Olaf; Schlemmer, Karl-Heinz; Boyer, J. Stephen; Miglarese, Mark

PA Bayer Aktiengesellschaft, Germany

SO PCT Int. Appl., 76 pp.

CODEN: PIXXD2

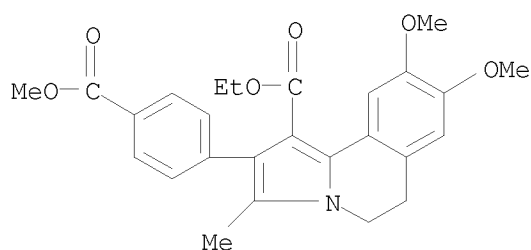
DT Patent

LA English

FAN.CNT 2

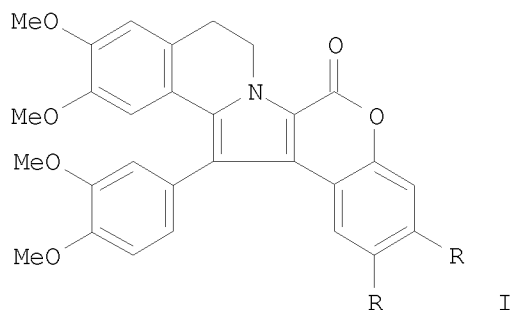
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003014115	A1	20030220	WO 2002-EP8341	20020726 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002355340	A1	20030224	AU 2002-355340	20020726 <--
PRAI	US 2001-310384P	P	20010806		

WO 2002-EP8341 W 20020726
OS MARPAT 138:187650
IT 1055066-42-6
RL: PRPH (Prophetic)
(Preparation of pyrrolo[2,1-a]isoquinolinecarboxylates as
phosphodiesterase 10a inhibitors for treating cancer.)
RN 1055066-42-6 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid,
5,6-dihydro-8,9-dimethoxy-2-[4-(methoxycarbonyl)phenyl]-3-methyl-, ethyl
ester (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
GI



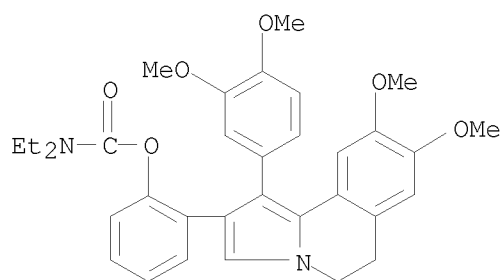
AB Direct metal-halogen exchange of 2-bromopyrrole carbonate derivs. with
tert-butyllithium followed by the intramol. lactonization of the resulting
2-pyrrole anion onto the carbonate provided the corresponding lamellarins
I (R = H; R = OMe) in moderate to good yield. The lamellarin framework
could be obtained from the direct metal-halogen exchange strategy in a
26-33% overall yield over 5-6 steps.

AN 2003:91107 CAPLUS

DN 138:354129

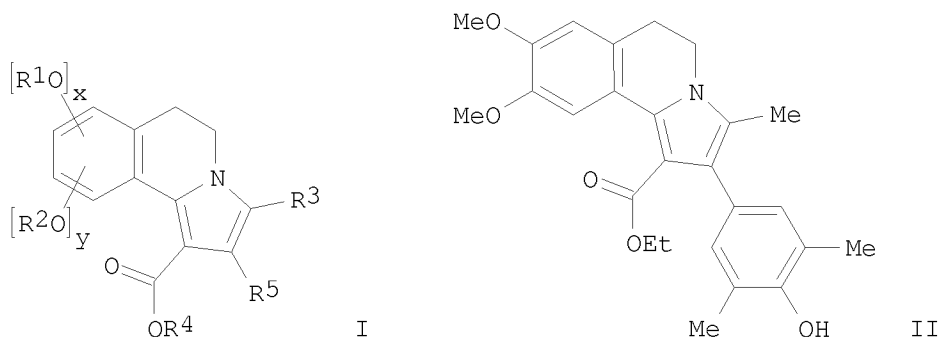
TI Further developments in the synthesis of lamellarin alkaloids via direct
metal-halogen exchange

AU Ploypradith, Poonsakdi; Jinaglueng, Wiyada; Pavaro, Chitkavee; Ruchirawat, Somsak
 CS Chulabhorn Research Institute, Bangkok, 10210, Thailand
 SO Tetrahedron Letters (2003), 44(7), 1363-1366
 CODEN: TELEAY; ISSN: 0040-4039
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 OS CASREACT 138:354129
 IT 519753-08-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis of lamellarin alkaloids via direct metal-halogen exchange)
 RN 519753-08-3 CAPLUS
 CN Carbamic acid, diethyl-, 2-[1-(3,4-dimethoxyphenyl)-5,6-dihydro-8,9-dimethoxypyrrolo[2,1-a]isoquinolin-2-yl]phenyl ester (9CI) (CA INDEX NAME)



RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
 GI



AB The title compds. [I; x, y = 0-1 with the proviso that x + y = 1 or 2; R1,

R2 = H, alkyl, CF₃; or R1 and R2 together = alkylene bridge; R3, R4 = alkyl; R5 = (un)substituted aryl] which are inhibitors of phosphodiesterase 10a and can be used for combating cancer, were prepared Thus, reacting Et (6,7-dimethoxy-3,4-dihydro-1(2H)-isoquinolinyli- dene)ethanoate (preparation given) with 3,5-dimethyl-4-hydroxybenzaldehyde, nitroethane and piperidine in EtOH/iso-PrOH afforded II which showed IC₅₀ of 30 nM against PDE 10a.

AN 2002:466004 CAPLUS

DN 137:47106

TI Preparation of pyrrolo[2,1-a]isoquinolines as phosphodiesterase 10a inhibitors

IN Niewoehner, Ulrich; Bauser, Marcus; Ergueden, Jens-Kerim; Flubacher, Dietmar; Naab, Paul; Repp, Thorsten-Oliver; Stoltefuss, Juergen; Burkhardt, Nils; Sewing, Andrea; Schauer, Michael; Schlemmer, Karl-Heinz; Weber, Olaf; Boyer, Stephen J.; Miglarese, Mark

PA Bayer Aktiengesellschaft, Germany

SO PCT Int. Appl., 88 pp.

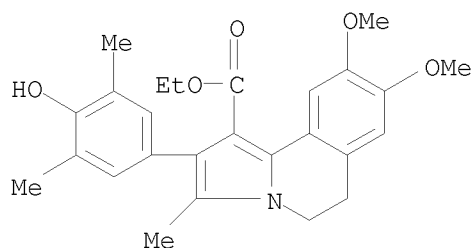
CODEN: PIXXD2

DT Patent

LA English

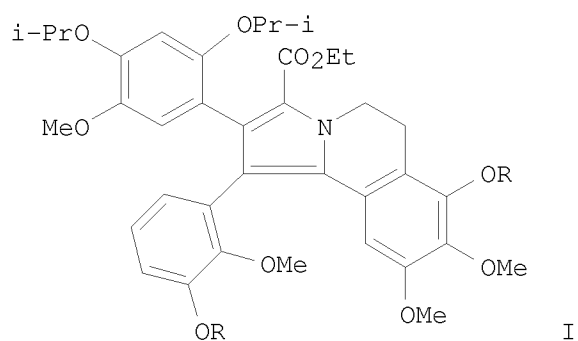
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002048144	A1	20020620	WO 2001-EP14187	20011204 <--
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	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2431326	A1	20020620	CA 2001-2431326	20011204 <--
	AU 2002027985	A	20020624	AU 2002-27985	20011204 <--
	EP 1347973	A1	20031001	EP 2001-989571	20011204 <--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	JP 2004517843	T	20040617	JP 2002-549675	20011204
	US 20040138249	A1	20040715	US 2004-451707	20040209
	US 6930114	B2	20050816		
PRAI	US 2000-255206P	P	20001213		
	US 2001-310312P	P	20010806		
	WO 2001-EP14187	W	20011204		
OS	MARPAT 137:47106				
IT	438037-96-8P				
	RL:	PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)			
		(preparation of pyrrolo[2,1-a]isoquinolines as phosphodiesterase 10a inhibitors)			
RN	438037-96-8 CAPLUS				
CN	Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 5,6-dihydro-2-(4-hydroxy-3,5-dimethylphenyl)-8,9-dimethoxy-3-methyl-, ethyl ester (CA INDEX NAME)				



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
GI



AB Lamellarins I and K were obtained by a new approach based on the
1,3-dipolar cycloaddn. of a nitron to an alkyne. The key cycloaddn.
yields an isoxazoline which rearranges to afford the central pyrrole ring
in I (R = Me, iPr).

AN 2001:508664 CAPLUS

DN 135:273102

TI Syntheses of lamellarins I and K by [3+2] cycloaddition of a nitron to an
alkyne

AU Diaz, Maite; Guitian, Enrique; Castedo, Luis

CS Departamento de Quimica Organica y Unidad Asociada al CSIC, Universidad de
Santiago, Santiago de Compostela, 15706, Spain

SO Synlett (2001), (7), 1164-1166

CODEN: SYNLES; ISSN: 0936-5214

PB Georg Thieme Verlag

DT Journal

LA English

OS CASREACT 135:273102

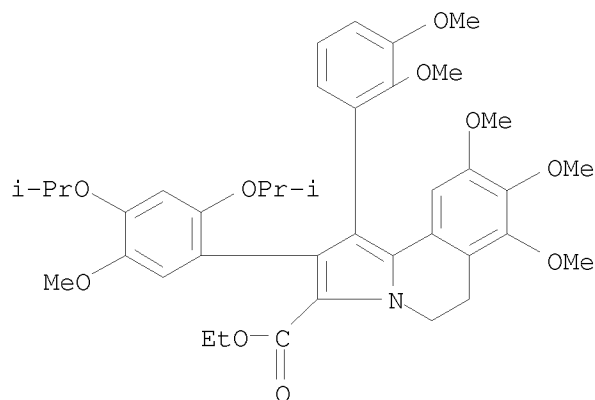
IT 363134-19-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(syntheses of lamellarins I and K by [3+2] cycloaddn. of a nitron to alkyne)

RN 363134-19-4 CAPLUS

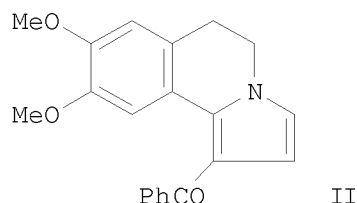
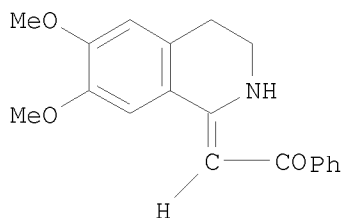
CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid,
1-(2,3-dimethoxyphenyl)-5,6-dihydro-7,8,9-trimethoxy-2-[5-methoxy-2,4-bis(1-methylethoxy)phenyl]-, ethyl ester (CA INDEX NAME)



RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN

GI



AB Annulation reactions of enaminones with various one- and two-carbon electrophilic synthons has yielded direct one-pot novel convergent routes to a variety of functionalized pyrrolo[2,1-a]isoquinolines and indolo[2,1-a]isoquinolines. E.g., reaction of enaminone I with $\text{BrCH}_2\text{CH}(\text{OEt})_2$ gave pyrrolo[2,1-a]isoquinoline II.

AN 2001:364902 CAPLUS

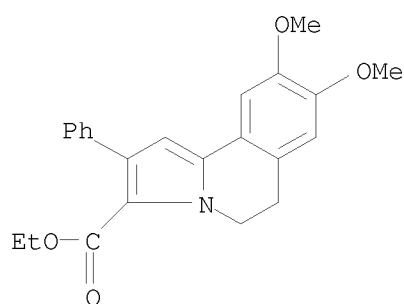
DN 135:107232

TI Ring Annulation with Tetrahydroisoquinoline-Derived Enaminones: Highly Convergent Routes to Functionalized Pyrrolo[2,1-a]- and Indolo[2,1-a]isoquinolines

AU Barun, Okram; Chakrabarti, Sriparna; Ila, H.; Junjappa, H.

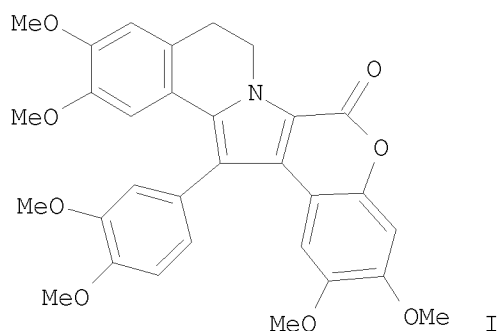
CS Department of Chemistry, Indian Institute of Technology, Kanpur, 208 016,

India
SO Journal of Organic Chemistry (2001), 66(12), 4457-4461
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 135:107232
IT 349649-21-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(ring annulation with tetrahydroisoquinoline-derived enaminones)
RN 349649-21-4 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid,
5,6-dihydro-8,9-dimethoxy-2-phenyl-, ethyl ester (CA INDEX NAME)



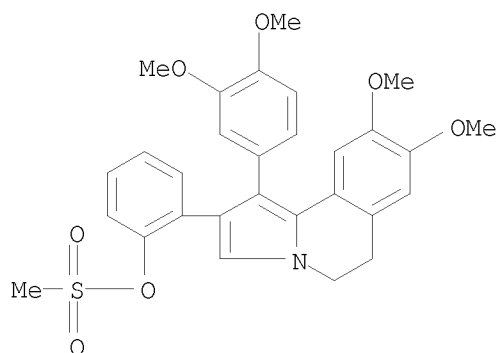
RE.CNT 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
GI



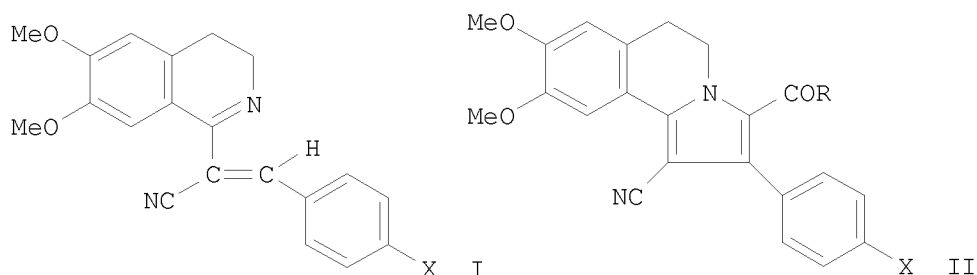
AB A general and efficient synthesis of lamellarin G tri-Me ether (I) is described. The synthesis involves the formation of the core pyrrolo[2,1-a]isoquinoline, followed by the formation of the lactone ring.
AN 2001:102291 CAPLUS

DN 134:280998
 TI An efficient synthesis of lamellarin alkaloids: synthesis of lamellarin G trimethyl ether
 AU Ruchirawat, S.; Mutarapat, T.
 CS Chulabhorn Research Institute, Bangkok, 10210, Thailand
 SO Tetrahedron Letters (2001), 42(6), 1205-1208
 CODEN: TELEAY; ISSN: 0040-4039
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 OS CASREACT 134:280998
 IT 332841-51-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis of lamellarin G tri-Me ether)
 RN 332841-51-7 CAPLUS
 CN Phenol, 2-[1-(3,4-dimethoxyphenyl)-5,6-dihydro-8,9-dimethoxypyrrolo[2,1-a]isoquinolin-2-yl]-, 1-methanesulfonate (CA INDEX NAME)



RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
 GI



AB Reactions of hydrazonoyl chlorides $\text{RCOCl:NNHC}_6\text{H}_4\text{X}-4$ ($\text{R} = \text{Ph, Me, EtO}$; $\text{X} = \text{Me, Cl, H}$) with 2-(3,4-dihydro-6,7-dimethoxyisoquinolin-1-yl)cinnamitriles I ($\text{X} = \text{Me, Cl}$) in benzene in the presence of triethylamine afforded 5,6-dihydropyrrolo[2,1-a]isoquinolines II.

AN 1996:514061 CAPLUS

DN 125:247578

OREF 125:46273a, 46276a

TI A convenient synthesis of 5,6-dihydropyrrolo[2,1-a]isoquinolines

AU Algharib, Mohammed Sami

CS Fac. Eng., Suez Canal Univ., Port Said, Egypt

SO Journal of Chemical Research, Synopses (1996), (8), 384-385
CODEN: JRPSDC; ISSN: 0308-2342

PB Royal Society of Chemistry

DT Journal

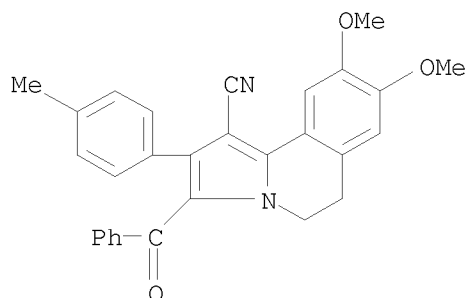
LA English

IT 182139-52-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of pyrroloisoquinolines)

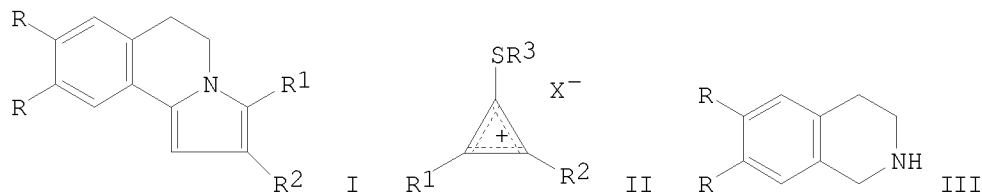
RN 182139-52-2 CAPLUS

CN Pyrrolo[2,1-a]isoquinoline-1-carbonitrile,
3-benzoyl-5,6-dihydro-8,9-dimethoxy-2-(4-methylphenyl)- (CA INDEX NAME)



L5 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN

GI



AB Hypotensive (no data) title compds. I ($\text{R, R}_1, \text{R}_2 = \text{H, Me}_3\text{CS, Me}_3\text{CS; MeO, Me}_3\text{CS, Me}_3\text{CS; MeO, MeS, MeS; MeO, Ph, Ph; MeO, EtPhN, Me}_3\text{CS; MeO, MeS, Me}_3\text{CS}$) were prepared by reaction of II ($\text{R}_3 = \text{alkyl, X}^-$) with III. Thus, stirring II ($\text{R}_1 = \text{R}_2 = \text{Me}_3\text{CS, R}_3 = \text{Me}_3\text{C, X} = \text{ClO}_4^-$) with III ($\text{R} = \text{H}$) in DMF 3 h at room temperature gave 46.4% I ($\text{R} = \text{H, R}_1 = \text{R}_2 = \text{Me}_3\text{CS}$).

AN 1983:143286 CAPLUS

DN 98:143286

OREF 98:21825a,21828a

TI Dihydropyrrolo[2,1-a]isoquinoline derivatives

PA Mitsubishi Chemical Industries Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 3 pp.

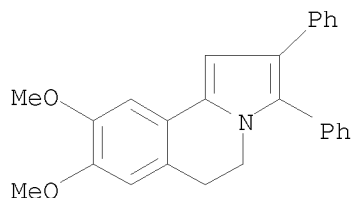
CODEN: JKXXAF

DT Patent

LA Japanese

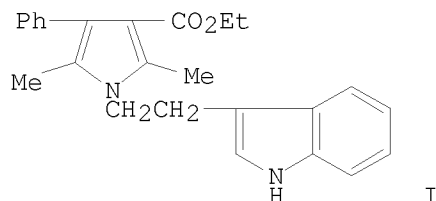
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 57146773	A	19820910	JP 1981-33451	19810309 <--
PRAI	JP 1981-33451		19810309		
IT	85149-45-7P				
	RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)				
RN	85149-45-7 CAPLUS				
CN	Pyrrolo[2,1-a]isoquinoline, 5,6-dihydro-8,9-dimethoxy-2,3-diphenyl- (CA INDEX NAME)				



L5 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN

GI



AB Pyrrole derivs. were obtained by condensing PhCH:CMeNO₂ with a variety of enamines. 1-Nitrocyclohexene gave an analogous product. The pyrrole I and some other compds. were obtained by multi-component synthesis, e.g., from tryptamine, PhCHO, EtNO₂, and MeCOCH₂CO₂Et.

AN 1981:603671 CAPLUS

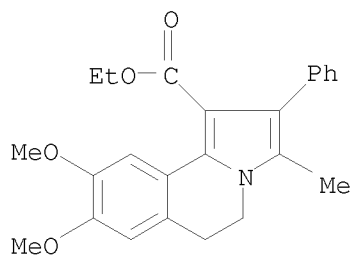
DN 95:203671

OREF 95:34025a,34028a

TI Heterocyclics from nitroalkenes. I. Pyrroles via cyclizing Michael addition of enamines

AU Meyer, Horst

CS Chem.-Wiss. Lab. Pharma, Bayer A.-G., Wuppertal, D-5600/1, Fed. Rep. Ger.
 SO Liebigs Annalen der Chemie (1981), (9), 1534-44
 CODEN: LACHDL; ISSN: 0170-2041
 DT Journal
 LA German
 OS CASREACT 95:203671
 IT 79823-24-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 79823-24-8 CAPLUS
 CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid,
 5,6-dihydro-8,9-dimethoxy-3-methyl-2-phenyl-, ethyl ester (CA INDEX NAME)



L5 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
 GI For diagram(s), see printed CA Issue.
 AB The title compds. (I) (R = H, CO₂H, or CO₂R; R₁ = H, CO₂H, or CH₂CO₂H acids, esters, or amides, or alkyl, cycloalkyl or aryl; and R₂ = H, CO₂H, or CO₂R), are hypotensive, sympathicolytic, and psychotropic agents. They are synthesized by the reaction of a 6,7-dimethoxy-3,4-dihydroisoquinoline (II) with a 2-Cl or [-Br ketone. Thus, a mixture of 50 g. 1-Me derivative of II, 39 g. Et chloropyruvate, and 42 g. NaHCO₃ in 500 ml. of EtOH was stirred at 35° 5 hrs., and the mixture diluted with 1.5 l. H₂O, filtered], and washed with H₂O to give I (R = R₁ = H, R₂ = CO₂Et) (III), m. 111-13° (EtOH-ligroine). Other I similarly prepared were: (R, R₁, R₂, and m.p. given): H, CH₂CO₂Et H, (IV), 91-3°; CO₂Et, Ph, H (V), 172-4°; H, CO₂Et, CO₂Et (VI), 91-3°; H, Ph, H (VII), 136-40°; H, cyclohexyl, H (VIII), 122-4°. A solution of 10 ml. 13% NaOEt in EtOH was added to a solution of 48 g. V and 20 g. Me₂NC₂H₄OH in 600 ml. PhMe, the mixture refluxed 6 hrs. (removing EtOH as an azeotrope), cooled, washed with H₂O, and extracted with HOAc, the extract made alkaline with NH₃ and extracted with CHCl₃, and the CHCl₃ evaporated to give I (R = CO₂C₂H₄NMe₂, R₁ = Ph, R₂ = H), m. 137-9° (EtOH). Similarly prepared I were (R, R₁, R₂, and m.p. given): H, Me, CO₂C₂H₄NMe₂, 98-9° (HCl salt m. 252-5°); H, Me, CO₂(CH₂)₃Q (Q = piperidino), 102-4°; H, H, CONHC₂H₄NEt₂, 146-8°. Hydrolysis of the Et esters with boiling alc. NaOH gave the corresponding acids (I ester hydrolyzed and m.p. of acid given): III, 232-4° (decomposition); IV, 159-60°; V, 219-11° (decomposition); VI, 229-30° (anhydride IX m. 239-40°). Treatment of IX with Et₂NC₂H₄NH₂ gave I (R = H, R₁ = Et₂NC₂H₄NHCO, and R₂ = CO₂H), m. 168-70°. A solution of 20 g. VII in 1.6 ml. HOAc was reduced with 3-20 atmospheric of H using 3 g. Pt oxide 25-30

hrs. at ambient temperature to give 2-phenyl-1,2,3,5,6,10b-hexahydro-8,9-dimethoxypyrrolo[2,1-a]isoquinoline, m. 121-3°. Reduction of VII with Raney Ni at 100° in EtOH at 130 atmospheric gave a mixture of VIII and I (R = H, R1 = cyclohexyl, R2 = H), m. 122-4°, and 2-cyclohexyl-1,2,3,5,6,10b-hexahydro-8,9-dimethoxypyrrolo-[2,1-a]isoquinoline, m. 91-2°; sulfate m. 170-1°; HBr3 salt m. 146-8°.

AN 1969:481215 CAPLUS

DN 71:81215

OREF 71:15049a,15052a

TI Hypotensive pyrrolo [2,1-a] isoquinoline

IN Ferrari, Giorgio; Casagrande, Cesare

PA SIPHAR S. A.

SO Brit., 8 pp.

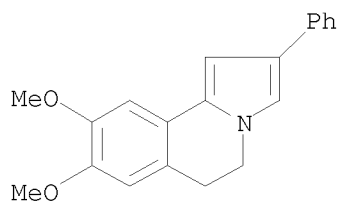
CODEN: BRXXAA

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	GB 1153670		19690529	GB 1967-55371	19671205 <--
	FR 1555788			FR	
	FR 7348			FR	
PRAI	BE		19661207		
IT	10174-48-8P				
	RL: SPN (Synthetic preparation); PREP (Preparation)				
	(preparation of)				
RN	10174-48-8 CAPLUS				
CN	Pyrrolo[2,1-a]isoquinoline, 5,6-dihydro-8,9-dimethoxy-2-phenyl-			(CA INDEX	
	NAME)				



L5 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN

AB A series of compds. with the pyrrolo[2,1-a]isoquinoline ring system was synthesized by Tschitschibabin cyclization and subsequent transformations. The pharmacol. activity of the new compds., was studied.

AN 1968:427223 CAPLUS

DN 69:27223

OREF 69:5063a,5066a

TI Synthesis and pharmacological evaluation of some pyrrolo[2,1-a]isoquinolines

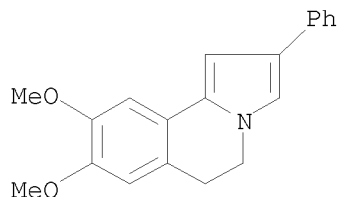
AU Casagrande, Cesare; Invernizzi, Ambrogio; Ferrini, Rosano; Ferrari, Giorgio G.

CS Res. Lab., Simes S.p.A., Milan, Italy

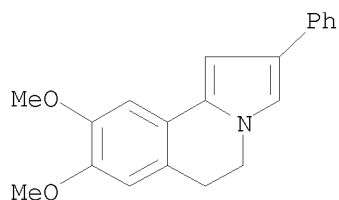
SO Journal of Medicinal Chemistry (1968), 11, 765-70

CODEN: JMCMAR; ISSN: 0022-2623

DT Journal
LA English
OS CASREACT 69:27223
IT 10174-48-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 10174-48-8 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline, 5,6-dihydro-8,9-dimethoxy-2-phenyl- (CA INDEX NAME)



L5 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
AB cf. CA 65, 8979b. Aryl-1-isoquinolylmethyl benzoates prepared from 2-benzoyl-1,2-dihydroisoquinolinaldonitrile were hydrolyzed to aryl-1-isoquinolylmethanols. These alcs. were oxidized to the corresponding ketones and reduced to the corresponding 1-benzylisoquinolines.
AN 1966:499250 CAPLUS
DN 65:99250
OREF 65:18559a-b
TI Reissert compound studies. XIII. Model reactions based on 2-benzoyl-1,2-dihydroisoquinolinaldonitrile
AU Gibson, H. W.; Popp, F. D.
CS Clarkson Coll. of Technol., Potsdam, NY
SO Journal of the Chemical Society [Section] C: Organic (1966), (20), 1860-4
CODEN: JSOOAX; ISSN: 0022-4952
DT Journal
LA English
IT 10174-48-8
(Derived from data in the 7th Collective Formula Index (1962-1966))
RN 10174-48-8 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline, 5,6-dihydro-8,9-dimethoxy-2-phenyl- (CA INDEX NAME)



L5 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
GI For diagram(s), see printed CA Issue.
AB Preparation of I was reported. Thus, into an ice-cooled solution of 3 g. 1-methyl-3,4-dihydroisoquinoline in 10 ml. C₆H₆ is added 2.8 g. bromoacetone, the mixture kept in a refrigerator overnight, C₆H₆ is removed, the residue washed with Et₂O, warmed 5 hrs. at 50° with 40 ml. 5% Na₂CO₃ solution, and extracted with Et₂O to give 352 mg. I (R₁ = Me, R₂ = H), m. 23-5°. Similarly prepared are the following I (R₁, R₂, m.p., and % yield given): Ph, H, 114° 36; Ph, OMe, 138° 47; (CH₂)₂CO₂Me, H, 80° 30; (CH₂)₂CO₂Me, OMe, 109° 68. Also prepared are 5,6-dihydropyrrolo[2,1-a]-β-carboline, m. 196°, and 2-methyl-3-ethoxycarbonyl-5,6-dihydropyrrolo[2,1-a]-β-carboline, m. 244° (decomposition).
AN 1966:499249 CAPLUS
DN 65:99249
OREF 65:18558g-h,18559a
TI Synthesis of 5,6-dihydropyrrolo[2,1-a]isoquinolines
AU Sakai, Shinichiro; Kubo, Akinori; Inaba, Minoru; Katagiri, Michiko; Tanno, Kayoko
CS Univ. Chiba, Japan
SO Yakugaku Zasshi (1966), 86(9), 856-8
CODEN: YKKZAJ; ISSN: 0031-6903
DT Journal
LA Japanese
IT 10174-48-8P, Pyrrolo[2,1-a]isoquinoline, 5,6-dihydro-8,9-dimethoxy-2-phenyl-
RL: PREP (Preparation)
(preparation of)
RN 10174-48-8 CAPLUS
CN Pyrrolo[2,1-a]isoquinoline, 5,6-dihydro-8,9-dimethoxy-2-phenyl- (CA INDEX NAME)

